

AIR QUALITY PERMIT

Issued To: Lyons Construction, Inc.
849 Coyote Lane
Butte, MT. 59701

Permit #3268-00
Application Complete: 06/02/03
Preliminary Determination Issued: 06/27/03
Department Decision Issued: 07/15/03
Permit Final: 07/31/03
AFS # 777-3268

An air quality permit, with conditions, is hereby granted to Lyons Construction, Inc. (Lyons), pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

Section I: Permitted Facilities

- A. Location: Lyons requests to operate a portable batch mix asphalt plant and initially locate the facility in Section 16, Township 3 North, Range 8 West, in Silver Bow County, Montana. Permit #3268-00 applies while operating at any location within Montana, except within those areas having a Department of Environmental Quality (Department) approved permitting program, tribal lands, or those areas in or within 10 kilometers of certain PM₁₀ nonattainment areas. However, a summertime addendum to this air quality permit is included in this permit to allow Lyons to operate in or within 10 kilometers (km) of certain PM₁₀ nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County.*
- B. Permitted Equipment: Lyons operates a portable 1968 Barber Green batch mix asphalt plant (with attached dry cyclone and wet scrubber for pollution control) and associated equipment. A list of permitted equipment is included in Section I.A of the Permit Analysis.

Section II: Limitations and Conditions

- A. Emission Limitations
 - 1. Asphalt plant particulate matter emissions shall be limited to 0.10 gr/dscf (ARM 17.8.752).
 - 2. Lyons shall not cause or authorize to be discharged into the atmosphere, from the asphalt plant, stack emissions that exhibit 20% opacity or greater averaged over 6 consecutive minutes (ARM 17.8.304 and ARM 17.8.752).
 - 3. Lyons shall not cause or authorize to be discharged into the atmosphere from systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler; systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems, any visible emissions that exhibit opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 and ARM 17.8.752).

4. Lyons shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308 and ARM 17.8.752).
5. Lyons shall treat all unpaved portions of the haul roads, access roads, and the general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions limitation in Section II.A.4 (ARM 17.8.752).
6. A device to measure the pressure drop (magnehelic gauge, manometer, etc.) on the control devices (dry cyclone and wet scrubber) must be installed and maintained. Pressure drop must be measured in inches of water. Temperature indicators at the control device inlet and outlet must be installed and maintained according to Section II.B.2 and II.B.3 (ARM 17.8.752).
7. Once a stack test is performed, the asphalt plant production rate shall be limited to the average production rate during the last source test demonstrating compliance (ARM 17.8.749).
8. Total asphalt plant production shall not exceed 646,800 tons of asphalt during any rolling 12-month time period (ARM 17.8.749).
9. The asphalt plant shall not exceed 5390 hours of operation during any rolling 12-month time period (ARM 17.8.749).
10. Lyons shall not operate more than one diesel generator and the maximum rated design capacity shall not exceed 400 kW (ARM 17.8.749).
11. The diesel generator shall not exceed 5390 hours of operation during any rolling 12-month time period (ARM 17.8.749).
12. If the permitted equipment is used in conjunction with any other equipment owned or operated by Lyons, at the same site, production shall be limited to correspond with an emission level that does not exceed 250 tons during any rolling 12-month time period. Any calculations used to establish production levels shall be approved by the Department (ARM 17.8.749).
13. Lyons shall install, operate, and maintain a dry cyclone and wet scrubber on the asphalt plant drum, as specified in Permit Application #3268-00 (ARM 17.8.752).
14. Lyons shall only use natural gas, fuel oil, or waste oil to fire the drum dryer, and Lyons shall only use natural gas to fire the asphalt heater (ARM 17.8.749).

B. Testing Requirements

1. Within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, an EPA Methods 1-5 and 9 source test shall be performed on the asphalt plant to demonstrate compliance with the limitations in Section II.A.1, Section II.A.2, and Section II.A.3 (ARM 17.8.105 and ARM 17.8.749).
2. An EPA Methods 1-5 and 9 source test must be performed on the asphalt plant every-4-years after the initial source test, or according to another testing/monitoring schedule as may be approved by the Department, to demonstrate compliance with the conditions specified in Section II.A.1, Section II.A.2, and Section II.A.3 (ARM 17.8.105 and ARM 17.8.749).
3. Pressure drop on the control device and temperature must be recorded daily and kept on site according to Section II.A.6 (ARM 17.8.749).
4. Pressure drop on the control device and temperatures must be recorded during the test and reported as part of the test results (ARM 17.8.749).
5. All compliance source tests must be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
6. Since asphalt production will be limited to the average production rate during the test, it is suggested the test be performed at the highest production rate practical (ARM 17.8.749).
7. Lyons may retest at any time in order to operate at a higher production rate (ARM 17.8.749).
8. The Department may require further testing (ARM 17.8.105).

C. Operational Reporting Requirements

1. If the asphalt plant is moved to another location, an Intent to Transfer Form must be sent to the Department. In addition, a Public Notice Form for Change of Location must be published in a newspaper of general circulation in the area where the transfer is to be made, at least 15 days prior to the move. The Intent to Transfer Form and the proof of publication (affidavit) of the Public Notice Form for Change of Location must be submitted to the Department prior to the move. These forms are available from the Department (ARM 17.8.765).
2. Lyons shall maintain on-site records showing daily hours of operation, daily production rates, and daily pressure drop and temperature readings for the last 12-months. The records compiled in accordance with this permit shall be maintained by Lyons as a permanent business record for at least 5 years following the date of the measurement, shall be submitted to the Department upon request, and shall be available at the plant for inspection by the Department (ARM 17.8.749).
3. Lyons shall supply the Department with annual production information for

all emission points, as required, by the Department in the annual emission inventory request. The request will include, but is not limited to, all sources identified in the most recent emission inventory report and sources identified in Section I.A of the permit analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in units, as required by the Department. This information may be used for calculating fees, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

4. Lyons shall document, by month, the total plant production of asphalt. By the 25th day of each month, Lyons shall total the production of asphalt during the previous 12-months to verify compliance with the limitation in Section II.A.8. A written report of the compliance verification shall be submitted along with the annual emission inventory (ARM 17.8.749).
5. Lyons shall document, by month, the hours of operation of the asphalt plant. By the 25th day of each month, Lyons shall total the hours of operation of the asphalt plant during the previous 12-months to verify compliance with the limitation in Section II.A.9. A written report of the compliance verification shall be submitted along with the annual emission inventory (ARM 17.8.749).
6. Lyons shall document, by month, the hours of operation of the diesel generator. By the 25th day of each month, Lyons shall total the hours of operation of the generator during the previous 12-months to verify compliance with the limitation in Section II.A.11. A written report of the compliance verification shall be submitted along with the annual emission inventory (ARM 17.8.749).
7. Lyons shall notify the Department of any construction or improvement project conducted pursuant to ARM 17.8.745 that would include a change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above its permitted operation or the addition of a new emission unit.

The notice must be submitted to the Department, in writing, 10 days prior to start up or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(1)(d) (ARM 17.8.745).

Section III: Addendum

Lyons shall comply with all conditions in Addendum 1 to this permit as appropriate (ARM 17.8.749).

Section IV: General Conditions

- A. Inspection – Lyons shall allow the Department's representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment (CEMS, CERMS) or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver - The permit and all the terms, conditions, and matters stated herein shall be deemed accepted if Lyons fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations - Nothing in this permit shall be construed as relieving Lyons of the responsibility for complying with any applicable federal or Montana statute, rule or standard, except as specifically provided in ARM 17.8.740, *et seq.* (ARM 17.8.756).
- D. Enforcement - Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties, or other enforcement, as specified in Section 75-2-401, *et seq.*, MCA.
- E. Appeals - Any person or persons jointly or severally adversely affected by the Department's decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefore, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing postpones the effective date of the Department's decision until the conclusion of the hearing and issuance of a final decision by the Board. The Department's decision on the application is not final unless 15 days have elapsed and there is no request for a hearing under this section.
- F. Permit Inspection - As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by Department personnel at the location of the permitted source.
- G. Permit Fees - Pursuant to Section 75-2-220, MCA, as amended by the 1991 Legislature, failure to pay the annual operation fee by Lyons may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Construction Commencement - Construction must begin within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked (ARM 17.8.762).
- I. The Department may modify the conditions of this permit based on local conditions of any future site. These factors may include, but are not limited to, local terrain, meteorological conditions, proximity to residences, etc.
- J. Lyons shall comply with the conditions contained in this permit while operating at any location in Montana, except within those areas having a Department approved permitting program.

Permit Analysis
Lyons Construction, Inc.
Permit #3268-00

I. Introduction

A. Permitted Equipment

Lyons Construction, Inc. (Lyons) operates a portable 1968 Barber Green hot mix asphalt plant (120 tons per hour (TPH)), a diesel generator (up to 400 Kilowatts (kW)), and associated equipment. Particulate emissions from the hot mix asphalt plant are controlled by a dry cyclone and wet scrubber.

B. Process Description

A typical operation for the hot mix asphalt plant begins by loading the aggregate into the bin feeder. The aggregate is then conveyed to the asphalt plant drum dryer for drying. The aggregate is then conveyed to a batch tower, where it is screened and sorted into hoppers. The material is then dropped onto a weigh hopper and released into a pugmill, where aggregate is mixed with a controlled amount of hot oil to create asphalt. Hot asphalt is then loaded into trucks for transport to project sites.

II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies, where appropriate.

A. ARM 17.8, Subchapter 1 - General Provisions, including, but not limited to:

1. ARM 17.8.101 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
2. ARM 17.8.105 Testing Requirements. Any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.
3. ARM 17.8.106 Source Testing Protocol. The requirements of this rule apply to any emission source testing conducted by the Department, any source, or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Clean Air Act of Montana, 75-2-101, *et seq.*, Montana Code Annotated (MCA).
Lyons shall comply with all requirements contained in the Montana

Source Test Protocol and Procedures Manual, including, but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. ARM 17.8.110 Malfunctions. (2) The Department must be notified promptly by telephone whenever a malfunction occurs that can be expected to create emissions in excess of any applicable emission limitation, or to continue for a period greater than 4 hours.
5. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means that, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner that a public nuisance is created.

B. ARM 17.8, Subchapter 2 - Ambient Air Quality, including, but not limited to:

1. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
2. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
3. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
4. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
5. ARM 17.8.223 Ambient Air Quality Standard for PM₁₀

Lyons must comply with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 - Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
2. ARM 17.8.308 Particulate Matter, Airborne. (1) This rule requires an opacity limitation of 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter. (2) Under this rule, Lyons shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter.
3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires that no person shall cause, allow, or permit to be discharged into the atmosphere particulate matter caused by the combustion of fuel in excess of the amount determined by this rule.

4. ARM 17.8.310 Particulate Matter, Industrial Process. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter in excess of the amount set forth in this section.
 5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. Commencing July 1, 1971, no person shall burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions.
 6. ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products. (3) No person shall load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank truck or trailer is equipped with a vapor loss control device as described in (1) of this rule.
 7. ARM 17.8.340 Standard of Performance for New Stationary Sources. The owner and operator of any stationary source or modification, as defined and applied in 40 CFR Part 60, shall comply with the standards and provisions of 40 CFR Part 60. This plant consists of a portable 1968 Barber Green Hot Mix Asphalt Plant (maximum production rate 120 TPH) and associated equipment. Therefore, New Source Performance Standards (40 CFR Part 60, Subpart A, General Provisions, and Subpart I, Hot Mix Asphalt Facilities) do not apply to the facility.
- D. ARM 17.8, Subchapter 5 - Air Quality Permit Application, Operation and Open Burning Fees, including, but not limited to:
1. ARM 17.8.504 Air Quality Permit Application Fees. Lyons shall submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. Lyons submitted the appropriate permit application fee for the current permit action.
 2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit, excluding an open burning permit, issued by the Department. This operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that pro-rate the required fee amount.

- E. ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:
1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
 2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a facility to obtain an air quality permit or permit alteration if they construct, alter, or use any asphalt plant, crusher, or screen that has the potential to emit greater than 15 tons per year of any pollutant. Lyons has the potential to emit more than 15 tons per year of total particulate matter (PM), particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀), oxides of nitrogen (NO_x), carbon monoxide (CO), and oxides of sulfur (SO_x); therefore, an air quality permit is required.
 3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit Program.
 4. ARM 17.8.745 Montana Air Quality Permits—Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that are not subject to the Montana Air Quality Permit Program.
 5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. This rule requires that a permit application be submitted prior to installation, alteration or use of a source. Lyons submitted the required permit application for the current permit action. (7) This rule requires that the applicant notify the public by means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. Lyons submitted an affidavit of publication of public notice for the June 13, 2003, issues of *The Montana Standard*, a newspaper of general circulation in the Town of Butte in Silver Bow County, as proof of compliance with the public notice requirements.
 6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
 7. ARM 17.8.752 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT (Best Available Control Technology) shall be utilized. The required BACT analysis is included in Section IV of this permit analysis.
 8. ARM 17.8.755 Inspection of Permit. This rule requires that air quality

permits shall be made available for inspection by the Department at the location of the source.

9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving Lyons of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*
 10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
 11. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or altered source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than 1 year after the permit is issued.
 12. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of the permittee, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
 13. ARM 17.8.764 Administrative Amendment to Permit. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those changed conditions. A source may not increase its emissions beyond those found in its permit unless the source applies for and receives another permit.
 14. ARM 17.8.765 Transfer of Permit. This rule states that an air quality permit may be transferred from one person to another if written notice of Intent to Transfer, including the names of the transferor and the transferee, is sent to the Department.
- F. ARM 17.8, Subchapter 8 - Prevention of Significant Deterioration of Air Quality, including, but not limited to:
1. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.
 2. ARM 17.8.818 Review of Major Stationary Sources and Major

Modification--Source Applicability and Exemptions. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow.

This facility is not a major stationary source since it is not a listed source and the facility's potential to emit is less than 250 tons per year (excluding fugitive emissions) of any air pollutant.

G. ARM 17.8, Subchapter 12 - Operating Permit Program Applicability, including, but not limited to:

1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any stationary source having:
 - a. Potential to Emit (PTE) > 100 tons/year of any pollutant;
 - b. PTE > 10 tons/year of any one Hazardous Air Pollutant (HAP), PTE > 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule, or
 - c. PTE > 70 tons/year of PM₁₀ in a serious PM₁₀ nonattainment area.
2. ARM 17.8.1204 Air Quality Operating Permit Program Applicability. Title V of the FCAA Amendments of 1990 requires that all sources, as defined in ARM 17.8.1204 (1), obtain a Title V Operating Permit. In reviewing and issuing Air Quality Permit #3268-00 for Lyons the following conclusions were made:
 - a. The facility's PTE is less than 100 tons/year for any pollutant.
 - b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year of all HAPs.
 - c. This source is not located in a serious PM₁₀ nonattainment area.
 - d. This facility is not subject to any current NESHAP standards.
 - e. This facility is not subject to any current NSPS standards.
 - f. This source is not a Title IV affected source nor a solid waste combustion unit.
 - g. This source is not an EPA designated Title V source.

Based on these facts, the Department determined that Lyons would be a minor source of emissions as defined under Title V.

III. Emission Inventory

Source	Tons/Year					
	PM	PM ₁₀	NO _x	VOC	CO	SO _x
1968 Barber Green Asphalt Plant w/ Dry Cyclone & Wet Scrubber	28.01	22.41	17.79	10.35	42.04	18.76
Elevator, Screens, Bins, and Mixer	12.13	9.70				
Cold Aggregate Handling	16.17	12.94				
Asphalt Heater			0.69	0.01		0.01
Diesel Generator (up to 400 KW)	3.18	3.18	44.81	3.57	9.66	2.96
Haul Roads	2.74	1.23				
Total	62.23	49.46	63.29	13.93	51.70	21.73

- A complete emissions inventory for Permit #3268-00 is on file with the Department.

IV. BACT Determination

A BACT determination is required for any new or altered source. Lyons shall install on the new or altered source the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. A BACT analysis was conducted for particulate matter, PM₁₀, NO_x, VOC, CO, and SO_x.

A dry cyclone and wet scrubber will be used to control emissions from the 1968 Barber Green hot mix asphalt plant. In addition, all visible emissions from the Barber Green hot mix asphalt plant, with attached dry cyclone and wet scrubber, are limited to 20% opacity. All asphalt plant particulate matter emissions are limited to 0.10 gr/dscf. Lyons must take reasonable precautions to limit fugitive emissions of particulate matter from haul roads, access roads, parking areas, and the general plant property. The Department determined that maintaining compliance with the emission limitations in Sections II.A.1, II.A.2, and II.A.3 of the permit and the reasonable precaution limitations constitutes BACT for the asphalt plant.

A BACT analysis was also conducted for NO_x, CO, and SO_x emissions. The Department determined that add-on control for NO_x, CO, and SO_x were not economically feasible due to the amount of NO_x, CO, and SO_x emissions that would be generated. However, limitations were placed upon equipment hours of operation and facility production in Permit #3268-00 to limit the emissions of NO_x, CO, and SO_x that would be generated.

The control options selected have control costs comparable to other recently permitted similar sources and are capable of achieving the appropriate emissions standards.

V. Existing Air Quality

Permit #3268-00 is issued for the operation of a portable hot mix asphalt plant to be initially located in Section 16, Township 3 North, Range 8 West, in Silver Bow County, Montana. This facility would be allowed to operate at this proposed site, and any other areas designated as attainment or unclassified for all National Ambient Air Quality Standards (NAAQS). In addition, the facility will be allowed to operate during the summer months (April 1 through September 30) in or within 10 km of certain PM₁₀ nonattainment areas. Thus the limitations and conditions established in Addendum 1

would further reduce emissions in these areas, including the proposed initial site location, and would be protective of the ambient air quality standards.

VI. Ambient Air Quality Impact Analysis

Permit #3268-00 will cover the operation while operating at any location within Montana, excluding those counties that have a Department approved permitting program, tribal lands, or those locations in or within 10 km of certain PM₁₀ nonattainment areas. In addition, Addendum 1 to Permit #3268-00 contains limitations and conditions that will be protective of the PM₁₀ nonattainment areas for summertime operations (April 1 through September 30). Based on the information provided, and the conditions established in Permit #3268-00 and Addendum 1, the amount of controlled emissions generated by this facility will not exceed any set ambient standard for operating the permitted equipment in these areas. In addition, this source is portable and any air quality impacts will be minimal.

VII. Taking or Damaging Implication Analysis

As required by 2-10-101 through 2-10-105, MCA, the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.

VIII. Environmental Assessment

An environmental assessment as required, by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

Addendum #1
Lyons Construction, Inc.
Permit #3268-00

An addendum to air quality Permit #3268-00, with conditions, is issued to Lyons Construction, Inc. (Lyons) pursuant to Sections 75-2-204 and 75-2-211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.734, as amended, for the following:

I. Permitted Equipment:

On June 3, 2003, the Department of Environmental Quality (Department) received an application from Lyons. The application requested an addendum and permit be established to allow the operation of a portable asphalt plant, including operation in or within 10 kilometers (km) of the following PM₁₀ nonattainment areas: Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte.

II. Seasonal and Site Restrictions

Addendum #1 applies to the Lyons facility while operating at any location in or within 10 km of certain PM₁₀ nonattainment areas (Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte). Additionally, seasonal and site restrictions apply to the facility as follows:

- A. During the winter season (October 1-March 31), Lyons is not allowed to operate in or within 10 km of certain PM₁₀ nonattainment areas, including, but not limited to Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte.
- B. During the summer season (April 1-September 30), Lyons may operate at any location in or within 10 kilometers of the Libby, Thompson Falls, Kalispell, Whitefish, Columbia Falls, and Butte PM₁₀ nonattainment areas.
- C. Lyons shall comply with the limitations and conditions contained in Addendum #1 to Permit #3268-00 while operating in or within 10 km of any of the previously listed PM₁₀ nonattainment areas. Addendum #1 shall be valid until revoked or modified. The Department reserves the authority to modify Addendum #1 at any time based on local conditions of any future site. These conditions may include, but are not limited to, local terrain, meteorological conditions, proximity to residences or other businesses, etc.

III. Limitations and Conditions

A. Operational

- 1. Asphalt plant particulate matter emissions shall be limited to 0.10 grains per dry standard cubic feet (gr/dscf) (ARM 17.8.752).

2. All visible emissions from the asphalt plant stack shall not exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
3. Lyons shall not cause or authorize to be discharged into the atmosphere from any equipment, such as systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler; systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
4. Lyons shall not cause or authorize to be discharged into the atmosphere from haul roads, access roads, parking lots, or the general plant area, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
5. Lyons shall treat all unpaved portions of the haul roads, access roads, parking lots, and general plant area with water and/or chemical dust suppressant, as necessary to maintain compliance with the 10% opacity limitation contained in Section III.A.4 (ARM 17.8.749).
6. Asphalt plant production shall not exceed 2,880 tons during any rolling 24-hour time period (ARM 17.8.1204).
7. The hours of operation of the diesel generator shall not exceed 14 hours during any rolling 24-hour time period (ARM 17.8.1204).

B. Reporting Requirements

1. Lyons shall provide the Department with written notification of job completion within 10 working days of job completion (ARM 17.8.749).
2. Lyons shall provide written notice of relocation of the permitted equipment at least 15 days prior to the physical transfer of equipment (ARM 17.8.765).
3. Production information for the sites covered by this addendum must be submitted to the Department within 30 days of completion of the project. The information shall include (ARM 17.8.749):
 - a. Tons of asphalt produced
 - b. Hours of operation
 - c. Type (natural gas, fuel oil, or waste oil) and amount (gallons of liquid or square cubic feet of gas) of fuel used for the asphalt plant (hot mix dryer and asphalt heater)

- d. Gallons of diesel fuel used for the diesel generator
- e. Fugitive dust information consisting of a listing of all plant vehicles, including the following for each vehicle type:
 - i. Number of vehicles
 - ii. Vehicle type
 - iii. Vehicle weight, loaded
 - iv. Vehicle weight, unloaded
 - v. Number of tires on vehicle
 - vi. Average trip length
 - vii. Number of trips per day per vehicle
 - viii. Average vehicle speed
 - ix. Area of activity
 - x. Vehicle fuel usage (gasoline or diesel) annual total
- f. Fugitive dust control for haul roads and general plant area:
 - i. Hours of operation of water trucks
 - ii. Application schedule for chemical dust suppressant, if applicable.

Addendum #1 Analysis
Lyons Construction, Inc.
Permit #3268-00

I. Permitted Equipment

Lyons Construction, Inc. (Lyons) owns and operates a portable asphalt plant (maximum capacity 120 tons per hour (ton/hr)). Equipment used at the facility includes, but is not limited to the following:

- A. (1) 120- ton/hr Barber Green hot mix dryer (batch mix) with dry cyclone and wet scrubber (fired on natural gas, fuel oil, or waste oil)
- B. (1) 1.8 MM BTU's per hour asphalt heater (fired on natural gas, fuel oil, or waste oil)
- C. (1) 400-kilowatt (kW) diesel generator
- D. Associated Equipment (elevator, screens, bins, mixer, conveyors, etc.)

II. Source Description

For a typical operational setup, the hot mix asphalt plant begins by loading the aggregate into the bin feeder. The aggregate is then conveyed to the asphalt plant drum dryer for drying. The aggregate is then conveyed to a batch tower, where it is screened and sorted into hoppers. The material is then dropped onto a weigh hopper and released into a pugmill, where aggregate is mixed with a controlled amount of hot oil to create asphalt. Hot asphalt is then loaded into trucks for transport to project sites.

III. Applicable Rules and Regulations

The following are partial quotations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies where appropriate.

ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:

- A. ARM 17.8.710 Conditions for Issuance of Permit. This rule requires that Lyons demonstrate compliance with applicable rules and standards before a permit can be issued. Also, a permit may be issued with such conditions as are necessary to assure compliance with all applicable rules and standards. Lyons demonstrated compliance with all applicable rules and standards as required for permit issuance.
- B. ARM 17.8.733 Modification of Permit. An air quality permit may be modified for changes in any applicable rules and standards adopted by the Board of Environmental Quality (Board) or changed conditions of operation at a source or stack that do not result in an increase in emissions because of the changed conditions. A source may not increase its emissions beyond those found in its

permit unless the source applies for and receives another permit.

C. ARM 17.8.734 Transfer of Permit. An air quality permit may be transferred from one location to another if:

1. Written notice of Intent to Transfer location and public notice is sent to the Department
2. The source will operate in the new location for a period of less than 1 year
3. The source will not have any significant impact on any nonattainment area or any Class I area.

Lyons shall submit proof of compliance with the transfer and public notice requirements when Lyons transfers to any of the locations covered by this addendum and will only be allowed to stay in the new location for a period of less than 1 year. Also, the conditions and limitations in Addendum #1 to Permit #3268-00 will prevent Lyons from having a significant impact on particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) nonattainment areas.

IV. Emission Inventory

Source	Lb/Day					
	PM	PM ₁₀	NO _x	VOC	CO	SO _x
1959 Barber Green Asphalt Plant w/ Dry Cyclone & Wet Scrubber	153.49	122.79	97.46	56.71	230.37	102.78
Elevator, Screens, Bins, and Mixer	66.45	53.16				
Cold Aggregate Handling	88.60	70.88				
Asphalt Heater			3.23	0.06		0.01
Diesel Generator (up to 400 KW)	17.43	17.43	245.55	19.57	52.91	16.24
Haul Roads	2.74	6.75				
Total	328.71	271.01	346.24	76.34	283.28	119.03

- A complete emission inventory for Addendum #1 to Permit #3268-00 is on file with the Department. The abbreviations in the table stand for the following criteria pollutants: particulate matter (PM), particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀), oxides of nitrogen (NO_x), volatile organic compounds (VOC), carbon monoxide (CO), and oxides of sulfur (SO_x).

V. Existing Air Quality

On July 1, 1987, the Environmental Protection Agency (EPA) promulgated new National Ambient Air Quality Standards (NAAQS) for particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀). Due to exceedances of the NAAQS for PM₁₀, the cities of Kalispell (and the nearby Evergreen area), Columbia Falls, Butte, Whitefish, Libby, Missoula, and Thompson Falls were designated by EPA as nonattainment for PM₁₀. As a result of this designation, EPA required the Department and the City-County Health Departments to submit PM₁₀ State Implementation Plans (SIP). The SIPs consisted of emission control plans that controlled fugitive dust emissions from roads, parking lots, construction, and demolition, since technical studies determined these sources to be the major contributors to PM₁₀ emissions.

Addendum #1 to Permit #3268-00 is for a portable asphalt plant to be located in or within 10 kilometers (km) of certain PM₁₀ nonattainment areas during the summer season (April 1 through September 30). Summertime operations may include areas in or within 10 km of certain PM₁₀ nonattainment areas, including, but not limited to Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte.

VI. Air Quality Impacts

In the view of the Department, the amount of controlled emissions generated by the operation will not exceed any set ambient standard. In addition, Addendum #1 to Permit #3268-00 contains limitations and conditions that will be protective of the PM₁₀ nonattainment areas.

VII. Taking or Damaging Implication Analysis

As required by 2-10-101 through 2-10-105, MCA, the Department conducted a private property taking and damaging assessment and determined that there are no taking or damaging implications.

VIII. Environmental Assessment

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Permitting and Compliance Division
Air and Waste Management Bureau
P.O. Box 200901, Helena, Montana 59620
(406) 444-3490

FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued For: Lyons Construction, Inc.
849 Coyote Lane
Butte, MT. 59701

Permit Number: #3268-00

Preliminary Determination Issued: June 27, 2003

Department Decision Issued: July 15, 2003

Permit Final: July 31, 2003

1. *Legal Description of Site:* Lyons submitted an application to operate a portable hot mix asphalt plant at Section 16, Township 3 North, Range 8 West, in Silver Bow County, Montana. Permit #3268-00 would apply while operating at any location in Montana, except within those areas having a Department approved permitting program. *A Missoula County air quality permit would be required for locations within Missoula County, Montana.* An addendum to this air quality permit is included with this permit when Lyons operates in or within 10 kilometers (km) of certain PM₁₀ nonattainment areas during the summer months.
2. *Description of Project:* The permit application proposes the construction and operation of a portable hot mix asphalt plant and associated equipment. For a typical operational setup, the hot mix asphalt plant begins by loading the aggregate into the bin feeder. The aggregate is then conveyed to the asphalt plant drum dryer for drying. The aggregate is then conveyed to a batch tower, where it is screened and sorted into hoppers. The material is then dropped onto a weigh hopper and released into a pugmill, where aggregate is mixed with a controlled amount of hot oil to create asphalt. Hot asphalt is then loaded into trucks for transport to project sites.
3. *Objectives of Project:* Lyons, in an effort to produce business and revenue for the company, submitted a complete permit application for the portable hot mix asphalt plant. The issuance of Permit #3268-00 would allow Lyons to operate the portable hot mix asphalt plant at various locations throughout Montana, including the proposed initial site location.
4. *Additional Project Site Information:* In many cases, this portable hot mix asphalt plant may move to a general site location or open cut pit, which has been previously permitted through IEMB. If this were the case, a more extensive EA would have been conducted for the site and would be found in the Mined Land Reclamation Permit for that specific site.
5. *Alternatives Considered:* In addition to the proposed action, the Department considered the "no-action" alternative. The "no-action" alternative would deny issuance of the air quality preconstruction permit to the proposed facility. However, the Department does not consider the "no-action" alternative to be appropriate because Lyons demonstrated compliance with all

applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.

6. *A Listing of Mitigation, Stipulations, and Other Controls:* A listing of the enforceable permit conditions and a permit analysis, including a BACT analysis, would be contained in Permit #3268-00.
7. *Regulatory Effects on Private Property Rights:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined the permit conditions would be reasonably necessary to ensure compliance with applicable requirements and demonstrate compliance with those requirements and would not unduly restrict private property rights.
8. *The following table summarizes the potential physical and biological effects of the proposed project on the human environment. The "no action alternative" was discussed previously.*

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Terrestrial and Aquatic Life and Habitats			X			yes
B.	Water Quality, Quantity, and Distribution			X			yes
C.	Geology and Soil Quality, Stability, and Moisture			X			yes
D.	Vegetation Cover, Quantity, and Quality			X			yes
E.	Aesthetics			X			yes
F.	Air Quality			X			yes
G.	Unique Endangered, Fragile, or Limited Environmental Resource			X			yes
H.	Demands on Environmental Resource of Water, Air, and Energy			X			yes
I.	Historical and Archaeological Sites				X		yes
J.	Cumulative and Secondary Impacts			X			yes

Summary of Comments on Potential Physical and Biological Effects: The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Terrestrials would use the same area as the asphalt plant operations. The asphalt plant operations would be considered a minor source of emissions, by industrial standards, with intermittent and seasonal operations. Additionally, the facility would be locating in or within 10 km of a PM₁₀ nonattainment area, where the more stringent operational conditions in Addendum 1 would apply. This would include limitations on daily production, hours of operation, and visible emissions. Further, the area in question is semi-desert land with little vegetation and terrestrial life. Therefore, only minor effects on terrestrial life would be expected as a result of equipment operations or from pollutant deposition.

Only minor amounts of water would be used for pollution control on the surrounding area, so little impact is expected upon aquatic life. At the initial site location, the nearest surface water is Silver Bow Creek, which is approximately 1/5 mile away. Further, Highway I-90 is in-between the facility and the creek. Therefore, any impacts to the terrestrial and aquatic life and habitat would be minor.

B. Water Quality, Quantity, and Distribution

Water would be used for dust suppression on the surrounding roadways and areas of operation and for pollution control for equipment operations. However, water use would only cause a minor disturbance to the area since only relatively small amounts of water would be needed. Any impacts from this proposed project would be minor as a result of using water for dust suppression and equipment operations, because only small amounts of water would be required and the project would be temporary and intermittent in nature.

Further, equipment operations would result in the emissions of air pollutants, which would disperse to surrounding water resources. However, as previously stated, emissions from the facility would be relatively minor, intermittent, and short-lived. Additionally, water resources at or near the site are limited and have historically been impaired. Therefore, any impacts from pollutant deposition or from equipment operations on the water resources would be minor.

C. Geology and Soil Quality, Stability, and Moisture

The soils in the proposed site locations would be impacted by the asphalt plant operations due to the construction and use of the asphalt plant. Minimal disturbance to soil would occur as a result of construction and use of the facility, because the facility would be operating on an intermittent and temporary basis, and pollutant deposition upon the surrounding soils would be minimal. Also, considering the facility's relatively small size (by industrial standards), portable and temporary nature, the areas historical usage, and dispersion of pollutants, any effects (upon geology and soil quality, stability, and moisture) from operating this facility would be minor.

D. Vegetation Cover, Quantity, and Quality

As described in Section 8.F of this EA, the impacts from the air emissions of this facility would be minor. As a result, the corresponding deposition of the air pollutants on the surrounding vegetation would also be minor. Also, equipment construction and operations would result in only minor soil and water disturbance (as described in Sections 8.B and 8.C). Therefore, because the facility would locate in an area where pollutant dispersion would occur, would locate in an area where little vegetation would be effected, and would be a minor source of emissions and temporary in nature, impacts from the emissions of the asphalt plant would be minor. So, corresponding vegetative impacts would also be minimal.

E. Aesthetics

The asphalt plant operations would be visible and would create additional noise in the area. Permit #3268-00 and Addendum 1 would include conditions to control emissions, including visible emissions, from the plant. Since the asphalt plant operations would have a minor amount of emissions, would be portable, would have seasonal and intermittent operations, and would locate within an area having little agricultural or recreational value and near an existing highway, any visual and noise impacts would be minor.

F. Air Quality

The air quality impacts from the asphalt plant operations would be minor because Permit #3268-00 and Addendum 1 would include conditions limiting the opacity from the plant, as well as requiring a dry cyclone, wet scrubber, and other means to control air pollution. Additionally, the facility is considered a minor source of air pollution by industrial standards and would be located in an area where good air pollutant dispersion would occur. Therefore, the air impacts would be minor.

The operations would be limited, by Permit #3268-00, to total emissions of 250 tons/year or less of any regulated pollutant from non-fugitive sources at the plant, including any additional equipment operated at the site. Furthermore, the facility emissions would be subject to BACT. For example, the plant would be required to use water to reduce emissions from equipment operations, storage piles, and haul roads. Also, the operation would have temporary and intermittent use, thereby further reducing potential air quality impacts from the facility. Therefore, air quality impacts would be minor.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The Department, in an effort to assess any potential impacts to any unique endangered, fragile, or limited environmental resources in the initial proposed area of operation, contacted the Montana Natural Heritage Program (MNHP). Search results concluded there is one such environmental resources found within the defined area. The defined area, in this case, is defined by the township and range of the proposed site, with an additional one-mile buffer.

The species has been identified as the Preble's Shrew and has been identified as having the potential to occupy this area. However, this resource is included within many miles of potential habitat and due to the proximity of the proposed location to an existing freeway, the lack of vegetative cover within the area, the surrounding land usage, and the portable and temporary nature of the facility, any impacts upon the identified resource would be minor and short-lived.

H. Demands on Environmental Resources of Water, Air, and Energy

Due to the size of the facility, the asphalt plant operations would only require small quantities of water, air, and energy for proper operation. Small quantities of water would be used for dust suppression and would control emissions being generated at the site. Energy requirements would also be small because the facility is small by industrial standards and would be powered by one industrial diesel generator, with seasonal and

intermittent operations. In addition, impacts to air resources would be minor because the source is small by industrial standards, with intermittent and seasonal operations, and because air pollutants generated by the facility would be widely dispersed. Furthermore, the particulate emissions would be controlled. Therefore, any impacts to water, air, and energy resources would be minor.

I. Historical and Archaeological Sites

The Department contacted the Montana Historical Society - State Historical Preservation Office (SHPO) in an effort to identify any historical and/or archaeological sites that may be present in the proposed area of construction/operation. Search results concluded that there are no previously recorded historical or archaeological resources of concern within the area proposed for initial operations. According to correspondence from the Montana State Historic Preservation Office, given the previous industrial disturbance in the area, there would be a low likelihood of adverse disturbance to any known archaeological or historic site. Therefore, no impacts upon historical or archaeological sites would be expected as a result of the proposed asphalt plant operations.

J. Cumulative and Secondary Impacts

The asphalt plant operations would cause minor cumulative and secondary impacts to the physical and biological aspects of the human environment because the facility would have seasonal and intermittent use and because the facility is considered a minor source of air pollutants by industrial standards. The facility would also have additional restrictions while operating at the initial site location, due to Addendum 1, which would further control pollutant emissions. The facility would generate emissions of PM, PM₁₀, NO_x, VOC, CO, and SO_x. Noise would also be generated from the site. Emissions and noise would cause minimal disturbance, due to the site location. Additionally, this facility, in combination with the other emissions from the site would not be permitted to exceed 250 tons per year of non-fugitive emissions.

9. *The following table summarizes the potential economic and social effects of the proposed project on the human environment. The “no action alternative” was discussed previously.*

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Social Structures and Mores				X		yes
B.	Cultural Uniqueness and Diversity				X		yes
C.	Local and State Tax Base and Tax Revenue			X			yes
D.	Agricultural or Industrial Production			X			yes
E.	Human Health			X			yes
F.	Access to and Quality of Recreational and Wilderness Activities			X			yes
G.	Quantity and Distribution of Employment			X			yes
H.	Distribution of Population				X		yes
I.	Demands for Government Services			X			yes
J.	Industrial and Commercial Activity				X		yes
K.	Locally Adopted Environmental Plans and Goals			X			yes
L.	Cumulative and Secondary Impacts			X			yes

SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS:

The Department has prepared the following comments.

A. Social Structures and Mores

The asphalt plant operation would cause no disruption to the social structures and mores in the area because the source is a minor source of emissions and temporary in nature. Additionally, the equipment would be located adjacent to a high traffic area but separated from residential populations by the existing highway. Also, the facility would be a minor source of air pollution and would be required to operate under the conditions in Permit #3268-00 and Addendum 1. Thus, no native or traditional communities would be affected by the proposed project operations and no impacts upon social structures or mores would result. The predominant use of the surrounding area would not change as a result of this project.

B. Cultural Uniqueness and Diversity

The cultural uniqueness and diversity of the area would not be impacted by the proposed asphalt plant operations because the site is separated from the general population. Additionally, the facility would be considered a portable/temporary source with seasonal and intermittent operations. The predominant use of the surrounding area would not change as a result of this project.

C. Local and State Tax Base and Tax Revenue

The asphalt plant operations would have little, if any, impact on the local and state tax base and tax revenue because the facility would be a temporary source and small by industrial standards. The facility operations would require the use of only two new employees. Thus, only minor impacts to the local and state tax base and revenue could be expected from the employees and facility production. Furthermore, the impacts to local tax base and revenue is expected to be minor because the source would be portable and the money generated for taxes would be widespread.

D. Agricultural or Industrial Production

The asphalt plant operations would have only a minor impact on local industrial production since the facility is small by industrial standards and would locate in an industrial use area. No anticipated effects to agricultural land are expected to occur because the facility would initially operate in an arid area with no agricultural usage and because the facility is a temporary source with minor amounts of emissions. As described in Section 8.D, impacts to vegetation would be minimal. Also, pollution control would be utilized on equipment operations and operational limits would be established (in Addendum 1) to protect the surrounding environment. Therefore, any effects upon agricultural or industrial production would be minor and short-lived.

E. Human Health

Permit #3268-00 and Addendum 1 would incorporate conditions to ensure that the asphalt plant would be operated in compliance with all applicable air quality rules and standards. These rules and standards are designed to be protective of human health. As described in Section 8.F., the air emissions from this facility would be minimized by the use of a dry cyclone, wet scrubber, and emission limits established in Permit #3268-00 and Addendum 1. Therefore, only minor impacts would be expected upon human health from the proposed asphalt plant.

F. Access to and Quality of Recreational and Wilderness Activities

The asphalt plant would be operated at a site approximately 2/5 of a mile north of the town of Rocker and approximately 1/6 of a mile north of the Highway I-90. The facility would generally have a minor impact upon the access to and quality of recreational and wilderness activities. For the initially proposed site, operations would not affect access to recreational and wilderness activities in the area because the site is private property that has little wilderness or recreational value, since it is near an existing highway and in an arid area that contains mostly weeds and sagebrush for vegetative material. Thus, no changes to recreational and wilderness activities, or access to those activities, are expected from the operation of the asphalt plant. Additionally, noise impacts from the facility would be minimal because the facility would operate near Highway I-90. Also, the facility would be a temporary source, with minor amounts of emissions. Thus, any changes in the quality of recreational and wilderness activities from noise, created by operating the equipment at the site, would be minor and intermittent.

G. Quantity and Distribution of Employment

The asphalt plant is a small and temporary source, which would have only minor effects

on the quantity and distribution of employment in the area because Lyons would use only two new employees for the project. Thus, because only two employees would be needed for such operations, any effect on the quantity and distribution of employment in the area would be minor and short-lived.

H. Distribution of Population

The asphalt operation is a minor source (relatively small) by industrial standards and only two new employees would be expected for the operation of the facility. Also, no individuals are expected to permanently relocate to the area as a result of operating the asphalt plant. Therefore, the asphalt plant operations would not impact the normal population distribution in the initial area of operation or any future operating site.

I. Demands of Government Services

Minor increases would be seen in traffic on existing roadways in the area while the asphalt plant operations are in progress. In addition, government services would be required for acquiring the appropriate permits from government agencies. Demands for government services would be minor.

J. Industrial and Commercial Activity

The asphalt plant operations would represent only a minor increase in the industrial activity in the given area because of the size of the operations (relatively small by industrial standards) and the portable and temporary nature of the facility. No additional industrial or commercial activity would be expected as a result of the proposed operations.

K. Locally Adopted Environmental Plans and Goals

Lyons would be allowed, by permit, to operate in areas designated by EPA as attainment unclassified, or summertime operations (October 1 through March 31) in or within 10 kilometers of certain PM₁₀ nonattainment areas, including the initial site location (Section 16, Township 3 North, Range 8 West, in Silver Bow County, Montana). Permit #3268-00 would contain limits, which would be protective of air quality and the ambient air quality standards while the facility is operating in these designated areas, as a locally adopted environmental plan or goal. Additionally, because the facility is a relatively small (by industrial standards) and portable source that will operate at multiple sites, on an intermittent and temporary basis, the Department believes that any impacts to existing air quality in these areas of operation would be minor and short-lived.

L. Cumulative and Secondary Impacts

The asphalt plant would cause minor cumulative and secondary impacts to the social and economic aspects of the human environment in the immediate area because the source is a portable, temporary source. Minor increases in traffic would have minor effects on local traffic in the immediate area, thus, having a direct effect on the social environment.

Because the source is relatively small (by industrial standards) and temporary, only minor economic impacts to the local economy could be expected from the operation of

the facility. Thus, minor and temporary cumulative effects would result to the local economy.

Recommendation: An EIS is not required.

If an EIS is not required, explain why the EA is an appropriate level of analysis: All potential effects resulting from construction and operation of the proposed facility are minor; therefore, an EIS is not required.

Other groups or agencies contacted or which may have overlapping jurisdiction: Department of Environmental Quality - Permitting and Compliance Division (Energy Minerals Bureau); Montana Natural Heritage Program; and the State Historic Preservation Office (Montana Historical Society).

Individuals or groups contributing to this EA: Department of Environmental Quality (Air and Waste Management Bureau and Industrial and Energy Minerals Bureau), Montana Natural Heritage Program, and State Historic Preservation Office (Montana Historical Society).

EA prepared by: Ron Lowney

Date: June 23, 2003